

What is claimed is:

- Sub
A1
- 5
1. A multi-service-class definition type ATM switch comprising:
 an ATM buffer device which comprises a buffer section consisting of
 a plurality of buffers, each of which is capable of defining a service class,
 and a cell reading section for reading data from the buffer section;
 a data input/output device which comprises a data input section for
 inputting data from external, a data output section for outputting the data,
 and a first data transceiver section for performing reception and
 transmission with respect to the data; and
 a data processing device which comprises a second data transceiver
 10 for performing reception and transmission of data in connection with the
 first data transceiver section, a data analysis section for analyzing the data
 given from the second data transceiver section, and a data reading/setting
 section.
2. A multi-service-class definition type ATM switch according to claim
 1 wherein the data input/output device is capable of inputting and
 outputting data regarding a service class such as a service category and a
 QOS class.
- Sub
A2
3. A multi-service-class definition type ATM switch according to claim
 1 or 2 wherein the data processing device performs processing regarding
 reception, transmission and analysis on data regarding a service class, a
 buffer number and a request type, so that reading and setting of the data
- 66250"620E4E60

[illegible]

5. A service class defining method for defining a service class for each of a plurality of buffers provided within an ATM switch, comprising the steps of:

detecting a mode, which is one of a data setting mode, a data read mode and a data renewal mode, on the basis of a request type designated by the data;

performing an operation on the data in association with the buffer in response to the mode; and

6. A service class defining method for defining a service class for each of a plurality of buffers provided within an ATM switch, comprising the steps of:

inputting data with regard to a service class containing a service
 5 category and a QOS class;

setting the data to a buffer whose buffer number is designated by
 the data within the plurality of buffers when a request type of the data
 corresponds to a data setting mode; and

outputting content of the data set to the buffer.

7. A service class defining method for defining a service class for each
 of a plurality of buffers provided within an ATM switch, comprising the
 steps of:

detecting a buffer number with respect to a service class, containing
 5 a service category and a QOS class, requested by a user;

reading data from a buffer, corresponding to the buffer number,
 within the plurality of buffers; and

outputting content of the data read from the buffer.

8. A service class defining method for defining a service class for each
 of a plurality of buffers provided within an ATM switch, comprising the
 steps of:

detecting a service class, containing a service category and a QOS
 5 class, which is designated by a user;

renewing data with respect to the service class; and

outputting content of the renewed data.

Add A3
 Add A4
 Add D1

662630 662630

Sub
 A3
 Cnt